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### WATER SUPPLY OUTLOOK FOR WASHINGTON



### U. S. DEPARTMENT of AGRICULTURE \* SOIL CONSERVATION SERVICE

Collaborating with

DEPARTMENT OF ECOLOGY STATE OF WASHINGTON

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.



### TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SURVEYOR ENROUTE TO THE MT. BALDY ARIZONA SNOW COURSE
SCS PHOTO AZ-5460

### PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 111, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P.O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 841 38
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

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### PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia

### WATER SUPPLY OUTLOOK FOR WASHINGTON

and FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

R.M. DAVIS

ADMINISTRATOR SOIL CONSERVATION SERVICE WASHINGTON. D C

Released by

GALEN S. BRIDGE

STATE CONSERVATIONIST SOIL CONSERVATION SERVICE SPOKANE, WASHINGTON

In Cooperation with

JOHN A. BIGGS

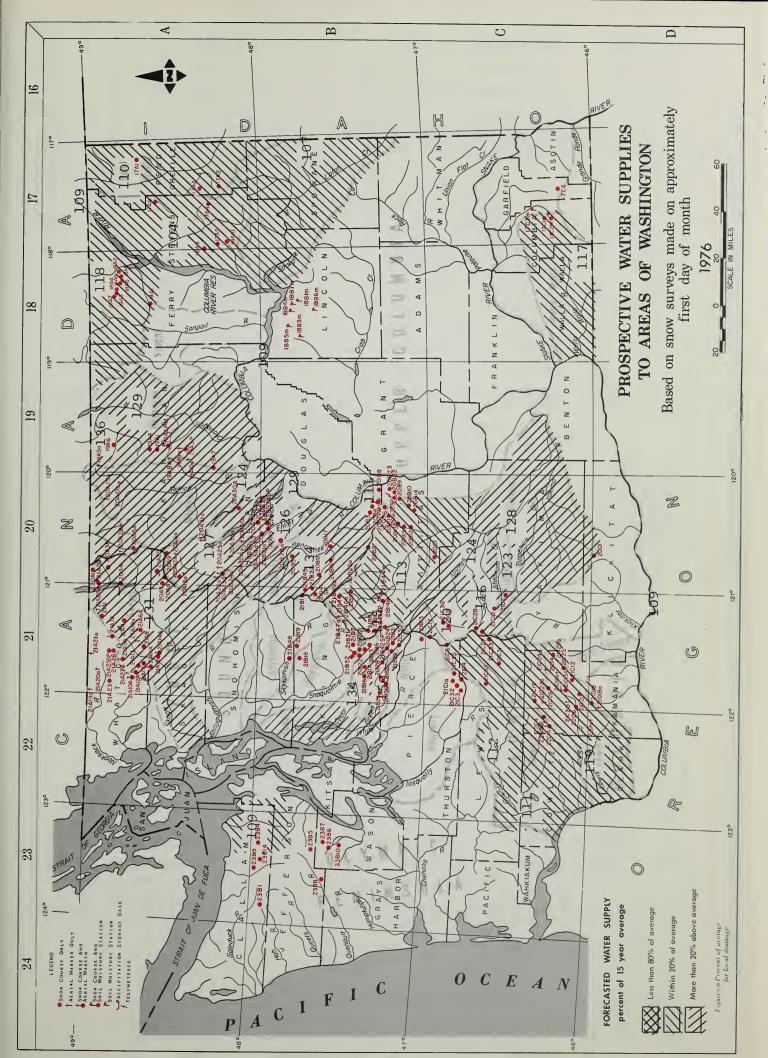
DIRECTOR
DEPARTMENT OF ECOLOGY
STATE OF WASHINGTON

Report prepared by

ROBERT T. DAVIS, Snow Survey Supervisor

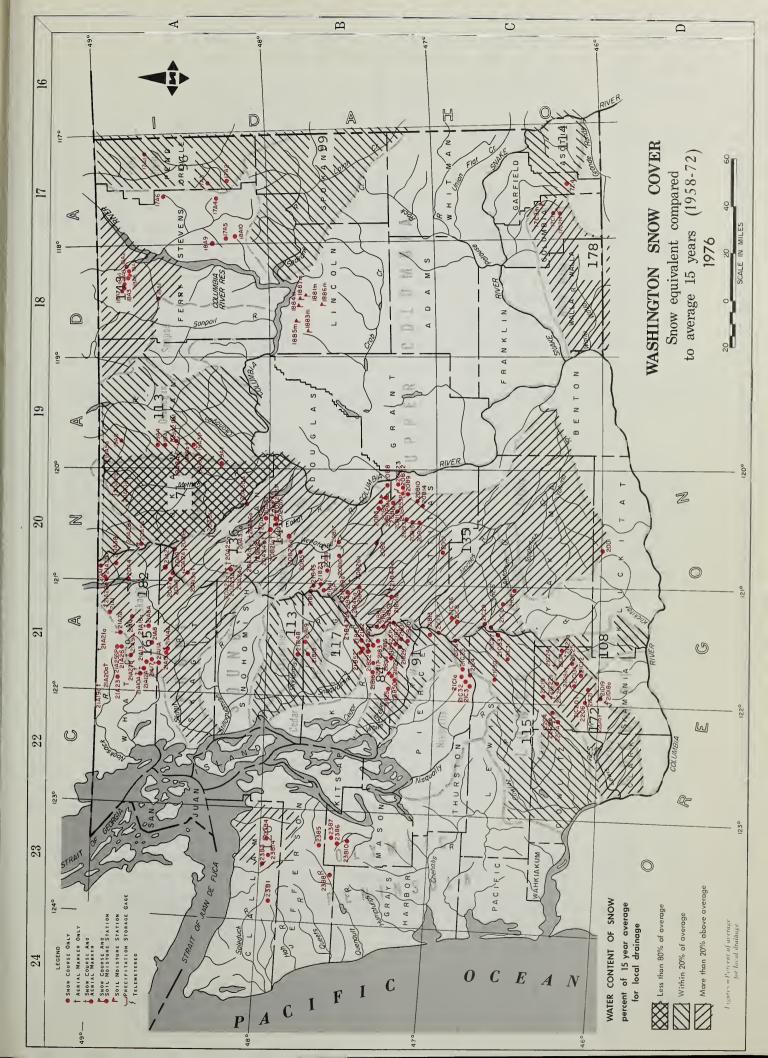
SOIL CONSERVATION SERVICE 360 U.S. COURTHOUSE SPOKANE, WASHINGTON 99201





# INDEX to WASHINGTON SNOW COURSES, SOIL MOISTURE STATIONS and PRECIPITATION STORAGE GAGES

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# INDEX to WASHINGTON SNOW COURSES, SOIL MOISTURE STATIONS and PRECIPITATION STORAGE GAGES

Skagit River   Signal River   Sign	Baker Pass         21A27a         1         37N         7E         4900           Dock Butte         21A1A         B         56N         BE         3800           Easy Pass         21A7A         19         39N         1E         5200           Jasper Pass         21A6A         17         38N         1E         5200           Jasper Pass         21A6A         17         38N         1E         5200           Nome Kulishan         21A6A         23         38N         B         560           Marten Lake         21A9A         23         38N         B         560           Mount Blum         21ABa         27         38N         10E         580           Rocky Greek         21A1Ba         27         37N         BE         3400           Schreibers Meadow         21A1Da         26         37N         BE         2400           Sulphur Creek         21A1A         20         37N         BE         1600           Three Mile Creek         21A1S         28         37N         BE         1600           Water Creek         21A1S         28         37N         BE         1600	Nooksack River 21A19a 7 40N 7E 21A20A 20 40N BE 21A23 9-10 3BN 7E 21A25 17 39N 9E w Pillow 21A25P 17 39N 9E 21A21a 16 40N 9E	Dungeness River   Dungeness River   2384   1 28N 5W 5200	LEGEND  21A7 SNOW COURSE ONLY 21A7 SATAL MARKER ONLY 21A74 SNOW COURSE AND SOIL MOISTURE STATION 21A7M SNOW COURSE AND SOIL MOISTURE STATION 21A7P SNOW COURSE AND SOIL MOISTURE STATION 21A7P SNOW COURSE AND PRECIPIATION STORAGE GAGE 21A7S SNOW PILLOW 21A7F SNOW PILLOW
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Wengtchee River (continued)   STO   Trough #2   Colockum Creek   Colocku	Crab Creek 1881m 32 27N 34E 1883m 28 27N 31E 1883m 21 27N 31E 1885m 21 27N 32E 1887m 24 27N 32E 1887m 24 27N 32E 1886m 24 27N 32E 7akima River 21C1 24 12N 14E 21C3 23 16N 12E ew 21C3 23 16N 12E		LOWER COLUMBIA DRAINAGE  Asolings (Helmers SM) 1752  Klickited River  Considerate and a considerate an	White Salmon River         Cultus Creek       21C12       35       7N       BE       4000         Blue Lake       21C22a       19       9N       8E       4800         Bob's Trail       21C21       25       BN       7E       2200         Calamity Ridge       22D1a       B       5N       5E       2500         Council Pass       21C18a       24       9N       9E       4200
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### State of Washington

May 1, 1976

\* The situation as of May 1, 1976 is very similar to that which  $*^{\hat{}}_{\star}$  $_{\star}^{\star}$  we were reporting last year at this time. It now appears that  $_{\star}^{\star}$ \* the state of Washington will enjoy another irrigation season \* \* without fear of water shortages and the situation with re- \* \* gards to damaging high flows is not too great over most of \* \* the state. There are a few locations where the National \* \*\* Weather Service is forecasting a 50-50 chance that the river \* \* stage will exceed flood stage in the following month, but \*, \* this high flow is not expected to be very severe this year.  $*_{\star}$ \* High water is predominately based upon temperature and pre- \*\* cipitation which we can expect during the month of May and up  $*_{\star}$ \* through the first part of June. If it so happens that precip- \* \* itation is well above normal and the temperature also above \* \*\* normal, then damaging flows will most certainly occur, but \* \* that is not being forecast as of this date. If the precipit- \* \*\* ation that occurred during April is any indication of what we \*\* \* can expect during May, then we don't have any worries at all. \* \* In fact, if that occurred, it is doubtful that these streams \* Rainfall was below normal in \*\* \* would even reach flood stage. \*\* all drainage divisions, as reported by the National Weather \*\*

\*\* all drainage divisions, as reported by the National Weather \*\* \* Service, except for the northeastern portion of the state and \*\* that, only 8 percent above average. Runoff during the month \* \* was mixed, with the main stem having 12 to 17 percent above \* \* was mixed, with the main stem having 12 to 17 percent above  $*_\star$  \* normal flows except at The Dalles, which was 26 percent  $*_\star$ This is a result of increased outflow of the Snake \* , \*\* River Basin. Tributary streams were generally below normal \* \* where the watersheds started at high elevations, but in the \* \* low elevation watersheds, such as the Palouse and Walla Walla, \* \* flows were well above normal, 80 and 54 percent, respectively. \*. \* As a result of this mix up of outflows during April, subse- \* \* quent water supply forecasts for the May-September period \* \* have been altered slightly - some up, some down - but overall \* \* the situation is very similar to that which was reported \*\* last month.

### SNOW COVER

We have, generally, an excellent snow cover over the state of Washington and tributary drainage areas with, again, minor exceptions. For those locations with a predominance of low elevation snow courses, snow cover ranges from a low of 29 percent below for the Methow River, to a high of 112 percent above for the Wenatchee.

The break down by major basin areas indicates the snow cover to be 4 percent below average in the Pend Oreille Drainage, 43 percent above in the Kettle, 1 percent below in the Spokane Drainage of northern Idaho, 13 percent above normal the Okanogan-Similkameen area, 21 percent below, as previously reported, on the Methow, 36 percent above for the Chelan, as measured by only one snow course. The Entiat is reported to have a snow pack 41 percent above normal, the Yakima 35 percent above and the high point, Wenatchee, 212 percent of normal. Along the Lower Columbia, the snow pack on the Asotin Creek, as measured by one snow course, is 14 percent above normal, while Mill Creek Drainage is 78 percent above. The White Salmon, measured by two snow courses, has a snow cover that is 8 percent above normal and the Lewis, measured by seventeen snow courses, 72 percent above. The Cowlitz River, measured by five snow courses only, has a snow pack that is 15 percent above average. the Puget Sound Drainage, the Skagit comes in with the greatest snow cover - 82 percent above normal, this measured by thirteen snow courses. The Baker, as measured by eleven snow courses, has a snow pack that is 65 percent above The low point of these drainages is the White, measured by three snow courses only, and it, 9 percent below normal. Only one snow course in the Olympic Drainage has records that can be used for comparison to average and this, the one snow course on Elwha, indicates the snow pack to be 26 percent above average.

### RESERVOIRS

The reservoir situation in the state is very good. The water is being managed to utilize it for the best possible runoff situation. Reservoirs with high forecasted inflow are being lowered to take care of the expected runoff without causing excessive damage. Irrigation reservoirs are being held to reduce damaging outflows, yet maintain a full head. Power reservoirs, such as Franklin D. Roosevelt, are very low for this time of year, but they can and will fill in short order with the spring runoff.

### PRECIPITATION

Rainfall during April was all below normal except in the northeastern portion of the state. The Columbia in Canada was reported to have precipitation during the month 23 percent below average; the Pend Oreille-Spokane Drainage, 5 percent below average; the northeastern portion of the state, 8 percent above; the southeastern portion of the state, 1 percent below; central Washington, 15 percent below average; and the northcentral area, 44 percent below average. On the west slopes of the Cascades, the northwestern slopes were reported to have 23 percent below average and the southwestern slopes, 19 percent below.

### STREAMFLOW

During the month of April, as previously reported, flows ranged from a high of 80 percent above normal to a low of 13 percent below, with the main stem of the Columbia, 12 to 26 percent above average. Forecasts have not been altered much, percentagewise, from that which was reported last month and currently range from a low of 4 percent above normal for the Colville River, as measured at Kettle Falls, to a high of 50 percent above normal on the Green River system. Numerical forecasts can be found following this narrative.

### STREAMFLOW FORECASTS - MAY, 1976

The following summarized runoff forecasts are based principally on mountain snow-cover and on the assumption that precipitation and temperature will be near average from the present time to the end of the forecast period. Appreciable deviations from normal of temperature and/or precipitation will correspondingly modify these forecasts. Streamflow figures for 1975 are preliminary and subject to revision.

		Season	al Streamf	low in '	Thousand	s of Ac	re-Feet
Basin, Stream	Forecast	8	Fore-				15-Yr.
and	Runoff	15-Yr.	cast			•	Average
Station	1976	Avg.	period	1975	1974	1973	58-72
	COLI	MBIA BAS	TN				
	<u>COH</u> 0	TIDIA DAS	TIN				
COLUMBIA RIVER SYSTEM							
Columbia River	47400	109	May-Sept	39322	50321	32773	43490
at Birchbank 1/	38100	110	May-July	31167	40586	25853	34632
_	27100	110	May-June	20668	27987	18180	24633
Columbia River	67700	109	May-Sept	62306	75369	41919	62110
at Grand Coulee 1/	56600	110	May-July	51684	63900	34263	51473
<u> </u>	43100	110	May-June	37148	47262	25956	39153
Columbia River	75400	111	May-Sept	69286	86002	44972	67890
bl. Rock Island Dam 1/	61900	109	May-July	58355	73543	37055	56790
DI. NOCK ISTAIR DAM 1/	48000	111	May-June	42335	54309	27887	43202
Columbia River	99800	109	May-Sept		119784	58016	91550
at The Dalles, OR $\underline{1}/$	83000	108	May-July		103630	47114	76815
	66700	111	May-June	62891	79342	36249	60083
PEND OREILLE RIVER SYSTEM							
Pend Oreille River	15100	110	May-Sept	16544	18438	7226	13740
bl. Box Canyon	13600	109	May-July	14857	16990	6529	12471
	11400	108	May-June	11572	13619	5670	10561
KETTLE RIVER SYSTEM							
Kettle River	1900	118	May-Sept	1747	2330	992	1614
nr. Laurier	1800	117	May-July	1665	2251	964	1534
	1600	116	May-June	1479	1975	892	1381
Colville River	95	104	May-Sept		164	32	91
at Kettle Falls	83	104	May-July		147	29	80
de l'acter l'alla	73	103	May-June		130	27	71

Observed flow corrected for storage in any of the following reservoirs which are above the station: Kootenay Lake, Hungry Horse, Flathead Lake, Pend Oreille Lake, F. D. Roosevelt Lake, Lake Chelan, Coeur d'Alene Lake, Brownlee, Noxon Reservoir and pumpage at F. D. Roosevelt Lake.

		Season	al Streamfl	ow in T	nousand	s of Ac	re-Feet
Basin, Stream	Forecast	8	Fore-				15-Yr
and	Runoff	15-Yr.	cast				Averagi
Station	1976	Avg.	period	1975	1974	1973	58-72
SPOKANE RIVER SYSTEM *							
Spokane River	2160	107	May-Sept	2611	3389	778	2010
at Post Falls, ID 2/	2060	107	May-July	2467	3271	720	1926
_	1900	106	May-June	2259	2998	660	1800
OKANOGAN RIVER SYSTEM							
Similkameen River	1938	136	May-Sept	1398	2094	688	1425
nr. Nighthawk	1786	134	May-July	1303	1970	649	1333
	1538	136	May-June	1057	1588	573	1131
Okanogan River	2050	129	May-Sept	1464	2511	704	1587
nr. Tonasket	1830	127	May-July	1319	2288	646	1446
	1540	127	May-June	1063	1784	561	1213
WINDLOW DIVIDE GUGHEN							
METHOW RIVER SYSTEM Methow River	1170	104	M C		1617	466	0.46
	1080	124	May-Sept		1517	466	946
nr. Pateros	910	123 122	May-July		1407	430	879
	910	122	May-June		1120	370	748
CHELAN RIVER SYSTEM							
Chelan River	1470	129	May-Sept	1295	1610	702	1139
at Chelan 3/	1290	129	May-July	1143 '	1369	605	999
<u> </u>	980	128	May-June	783	963	469	767
			-				
Stehekin River	1050	127	May-Sept	^	1153	490	830
at Stehekin	905	129	May-July		926	396	702
	685	130	May-June		648	301	526
Entiat	280	126	May-Sept		364	132	223
nr. Ardenvoir	256	126	May-July		323	118	204
	210	127	May-June		232	99	165

<sup>\*</sup> Forecasts made by Jack A. Wilson, Soil Conservation Service, Boise, Idaho.

<sup>2/</sup> Observed flow corrected for storage in Coeur d'Alene Lake and diversions by Spokane Valley Farms Company and Rathdrum Prairie Canals.

<sup>3/</sup> Observed flow corrected for storage in Lake Chelan.

		Season	al Streamflo	ow in Th	ousands	of Acr	e-Feet
Basin, Stream	Forecast	8	Fore-				15-Yr.
and	Runoff	15-Yr.	cast				Average
Station	1976	Avg.	period	1975	1974	1973	58-72
WENATCHEE RIVER SYSTEM							
Wenatchee River	1560	134	May-Sept	1316	1750	689	1165
at Plain	1400	135	May-July	1182	1492	608	1040
	1100	136	May-June	844	1028	488	809
Wenatchee River	2200	139	May-Sept	1805	2333	903	1583
at Peshastin	1970	138	May-July	1623	2008	808	1426
<b>40 2 3 3 3 3 3 3 3 3 3 3</b>	1560	139	May-June	1164	1409	656	1121
Stemilt Basin	150*	110	May-Sept			•	138*
nr. Wenatchee							
YAKIMA RIVER SYSTEM							
Yakima River	132	115	May-Sept	156	204	63	115
nr. Martin 4/	121	116	May-July	142	187	55	104
_	101	114	May-June	115	143	50	89
Yakima River	900	113	May-Sept	1020	1282	441	794
at Cle Elum 5/	820	116	May-July	920	1154	376	706
_	690	116	May-June	<b>7</b> 50	886	319	593
Yakima River	1700	128	May-Sept			415	1328
nr. Parker 6/	1670	129	May-July	•		423	1298
<u> </u>	1480	126	May-June		do	432	1178
Kachess River	116	116	May-Sept	141	179	50	100
nr. Easton 7/	109	117	May-July	132	165	46	93
<u></u>	96	118	May-June	107	128	43	81
Cle Elum River	485	118	May-Sept	506	676	237	410
nr. Roslyn 8/	445	120	May-July	459	595	207	371
	360	118	May-June	355	431	172	306
Bumping River	155	120	May-Sept	172	213	63	129
nr. Nile 9/	142	120	May-July	155	190	57	118
111 · 11210 <u>3/</u>	116	121	May-June	112	135	51	96

<sup>\*</sup> Thousands of Miners' Inches.

<sup>4/</sup> Observed flow corrected for storage in Lake Keechelus.

<sup>5/</sup> Observed flow corrected for storage in Keechelus, Kachess and Cle Elum Lakes and diversion by Kittitas Canal.

<sup>6/</sup> Observed flow corrected for storage in Keechelus, Kachess, Cle Elum, Bumping and Rimrock Lakes and diversions by Roza, Union Gap, New Reservation, Old Reservation and Sunnyside Canals.

<sup>7/</sup> Observed flow corrected for storage in Lake Kachess.

<sup>8/</sup> Observed flow corrected for storage in Lake Cle Elum.

<sup>9/</sup> Observed flow corrected for storage in Bumping Lake.

		Season	al Streamfl	ow in T	nousand	s of Aci	re-Feet
Basin, Stream	Forecast	%	Fore-			01 110	15-Yr.
and	Runoff	15-Yr.	cast				Average
Station	1976	Avg.	period	1975	1974	1973	58-72
YAKIMA RIVER SYSTEM (Cont.)							
American River	129	115	May-Sept	141	185	59	112
nr. Nile	118	115	May-July	129	163	54	103
	96	113	May-June	96	119	47	85
Tieton River	248	116	May-Sept	277	360	140	214
at Tieton Dam 10/	208	117	May-July	232	292	104	178
<del></del>	165	119	May-June	166	211	78	139
Naches River	- 930	124	May-Sept	959	1237	366	748
nr. Naches 11/	815	122	May-July	856	1094	309	669
<del></del>	680	122	May-June	666	846	260	557
Ahtanum Creek	48	123	May-Sept	50	68	16	39
nr. Tampico 12/	43	123	May-July	44	61	14	35
_	37	123	May-June	37	49	12	30
LOWER COLUMBIA RIVER SYSTEM							
Mill Creek	21	117	May-Sept	30	39	13	18
nr. Walla Walla	17	121	May-July	25	33	9	14
	14	117	May-June	21	29	6	12
Lewis River	1110	119	May-Sept	977 '	1469	591	932
at Ariel 13/	925	121	May-July	810	1276	456	765
<del>-</del>	770	120	May-June	672	1006	365	643
Cowlitz River	1850	112	May-Sept	•	2745	1001	1650
Blw. Mayfield Dam	1542	111	May-July		2397	815	1391
	1220	109	May-June		1837	659	1123
Cowlitz River	2330	111	May-Sept	2318	3282	1316	2108
at Castle Rock 14/	2000	115	May-July	1945	2848	1056	1741
	1590	113	May-June	1483	2183	858	1407

<sup>10/</sup> Observed flow corrected for storage in Rimrock Lake.

<sup>11/</sup> Observed flow corrected for storage in Bumping and Rimrock Lakes and diversions by Tieton, Selah Valley, Wapatox Canals and City of Yakima.

<sup>12/</sup> Observed flow of North and South Forks (Combined).

<sup>13/</sup> Observed flow corrected for storage in Lake Merwin, Yale and Swift Reservoirs.

<sup>14/</sup> Observed flow corrected for storage in Mayfield Reservoir.

		Season	al Streamfl	ow in T	housands	of Ac	re-Feet
Basin, Stream	Forecast	8	Fore-				15-Yr.
and	Runoff	15-Yr.	cast				Average
Station	1976	Avg.	period	1975	1974	1973	58-72
	OLYMPI	C PENINS					
			-				
DUNGENESS RIVER SYSTEM							
Dungeness River	160	109	May-Sept		187	109	147
nr. Sequim	130	109	May-July		145	86	119
	94	111	May-June		93	62	85
	PUGI	ET SOUND	<u>-</u>				
SKAGIT RIVER SYSTEM							
Skagit River	2760	101	Marra Arra	25.00	2750	1201	2027
at Newhalem 15/	2760	131	May-Aug.	2500	2759	1381	2037
at Newitatem 137							
CEDAR RIVER SYSTEM							
Cedar River	122	134	Apr-Sept				
at Cedar Falls		201	THE OCPC		145	53	91
GREEN RIVER SYSTEM							
Green River	220	150	Marz-Sont	200	272	124	220
blw. Howard Hanson Dam 16/	330	150	May-Sept	290	372	124	220
DIW. HOWAIG HAIISOH DAM 10/					•		

<sup>0</sup>bserved flow corrected for storage in Diablo, Ross and Gorge Reservoirs.

<sup>16/</sup> Observed flow corrected for storage in Howard Hanson Dam.

### COMPARISON OF SNOW COVER WITH THAT OF PREVIOUS YEARS

The following tabulation of Washington stream basins presents the water content of the snow about May 1, 1976 as percent of the same date in 1975 and 1974 and average of record.

	No. of	1976 S	now Water E	xpressed
Tributary Basins	Courses		as percent	
	Average	1975	1974	1958-72 Avg
	IIDDED COI	UMBIA BASIN		
	OFFER COL	OFIDIA DASIN		
Pend Oreille	13	70	66	96
Kettle	12	88	103	143
Spokane	9	86	78	99
Okanogan	32	82	74	113
Methow	6	52	36	71
Chelan	1	120	99	136
Entiat	10	124	87	141
Wenatchee	8	91	107	212
Yakima	17	86	71	135
	LOWER	COLUMBIA		
Asotin Creek	1	89	68	114
Mill Creek	1	-	64	178
White Salmon	2	99	64	108
Lewis	17	116	74	172
Cowlitz	5	99	73	115
	PUGET	SOUND		
Nisqually	4	108	79	_
White	3	88	79	91
Green	2	78	64	84
Snoqualmie	1	86	62	117
Skykomish	2	89	74	113
Skagit	13	123	109	182
Baker	11	127	118	165
Nooksack	1	114	65	-
	OLYMPIC	PENINSULA		
-1 1 1				
Skokomish	3 ·	109	77	_
Elwha	1	121	109	126
Morse	1	128	105	-

RESERVOIR STORAGE - 1000 ACRE FEET

BASIN USABLE 1/ Measured (May)							
STREAM	RESERVOIR	CAPACITY	1976	1975	1974	Normal*	
		COLUMBIA					
Spokane	Coeur d'Alene Lake	225.1	236.7	204.2	419.1	253.2	
Columbia	Franklin D. Roosevelt Lake	5232.0	659.3	312.1	-1948.0	1654.6	
Columbia	Banks Lake	761.8	597.3	550.7	548.2	457.7	
Okanogan	Conconully Reservoir	13.0	11.3	11.0	10.1	11.2	
Okanogan	Salmon Lake	10.5	9.8	9.5	9.9	7.8	
Chelan	Lake Chelan	676.1	367.3	79.0	188.5	225.1	
		YAKIMA					
Yakima	Keechelus Lake	157.8	104.5	99.5	116.5	121.2	
Kachess	Kachess Lake	239.0	218.5	176.5	149.8	199.2	
Cle Elum	Lake Cle Elum	436.9	307.3	276.6	249.7	310.9	
Bumping	Bumping Lake	33.7	8.0	3.0	8.4	16.1	
Tieton	Rimrock Lake	198.0	141.2	134.8	144.3	146.9	
		PUGET SOUND					
Skagit	Ross Reservoir	1404.1	743.0	385.9	700.2	751.2	
Skagit	Diablo Reservoir	90.6	87.1	86.9	85.7	85.7	
Skagit	Gorge Reservoir	9.8	8.4	7.9	7.9	-	

<sup>1/</sup> Based on Active Storage
\* 15-year Average 1958-72

SOIL MOISTURE - MAY

Drainage Basin			Profile	Inches	Soil M	oistur	Content	
and			1101110	Total		as of		
Station	Number	Elev.	Depth	Capacity	1976	1975	1974	
,								
OKANOGAN								
Salmon Meadows	19A02M	4500	48	5.4	4.3	3.8	3.8	
Trout Creek	3-M	3600	48	7.3	4.9*	-	5.6	
YAKIMA								
Domery Flat	21B20m	2200	48	6.9	-	-	4.8	
Lake Cle Elum	21B14M	2200	48	12.8	-	-	9.1	
WALLA WALLA								
Couse	17C3m	3650	48	11.1	-	-	-	
Helmers	17C2M	4400	48	12.0	-	-	-	
WENATCHEE								
Upper Wheeler	20B7M	4400	48	12.7	15.2	12.4	13.0	

<sup>\*</sup> April Measurement

### FALL SOIL MOISTURE

Drainage Basin			Profile	Inches			Content
and				Total	Inches	as of	Oct. 1
Station_	Number	Elev.	Depth	Capacity	1975	1974	1973
OKANOGAN							
Salmon Meadows	19A02M	4500	48	5.4	3.2	1.8	2.6
Trout Creek	3-M	3600	48	7.3	3.1	3.0	2.8
					*		
YAKIMA							
Domery Flat	21B20m	2200	48	6.9	-	-	2.6
Lake Cle Elum	21B14M	2200	48	12.8	-	-	6.1
WALLA WALLA							
Couse	17C3m	3650	48	11.1	7.3	-	5.6
Helmers	17C2M	4400	48	12.0	6.5	-	7.6
WENATCHEE							
Upper Wheeler	20B7M	4400	48	12.7	8.6	5.4	6.0

 $\begin{array}{c} {\tt PRECIPITATION} \ \ \underline{1}/ \\ \\ {\tt Division} \ \ {\tt Average} \ \ {\tt Observations} \ \ {\tt and} \ \ {\tt Departures} \end{array}$ 

	FAI		NIW	NTER	SPRI	NG
Drainage	Sept-Oct	1975 <u>2</u> /	Nov. 1975-	Mar. 1976	April,	1976
Divisions	Observed	Departure	Observed	Departure	Observed	Departure
Columbia in Canada	3.51	+ 0.96	13.54	+ 0.79	1.13	- 0.33
Pend Oreille - Spokane	4.27	- 0.21	18.45	- 0.30	2.19	- 0.11
Northeastern Washington	2.29	- 0.49	9.45	- 1.66	1.56	+ 0.11
Southeastern Washington	2.94	- 0.29	11.77	- 1.70	2.01	- 0.02
Central Washington	5.47	+ 0.72	33.67	+ 6.14	1.87	- 0.32
North Central Washington	1.22	- 0.40	5.87	- 0.85	0.50	- 0.39
Northwest Slope Cascades	15.42	+ 2.73	65.16	+12.93	4.89	- 1.48
Southwest Slope Cascades	8.34	- 0.34	46.34	+ 4.70	3.76	- 0.86

Northeastern Washington

Kettle Drainages.

Southeastern Washington

- Touchet, Tucannon and Palouse Drainages.

- Lower Spokane, Colville, Sanpoil and Lower

Central Washington

- Yakima, Wenatchee and Chelan Drainages.

North Central Washington

- Methow and Okanogan Drainages.

Northwest Slope Cascades

- Puget Sound Drainages.

Southwest Slope Cascades

- Lower Columbia Drainages.

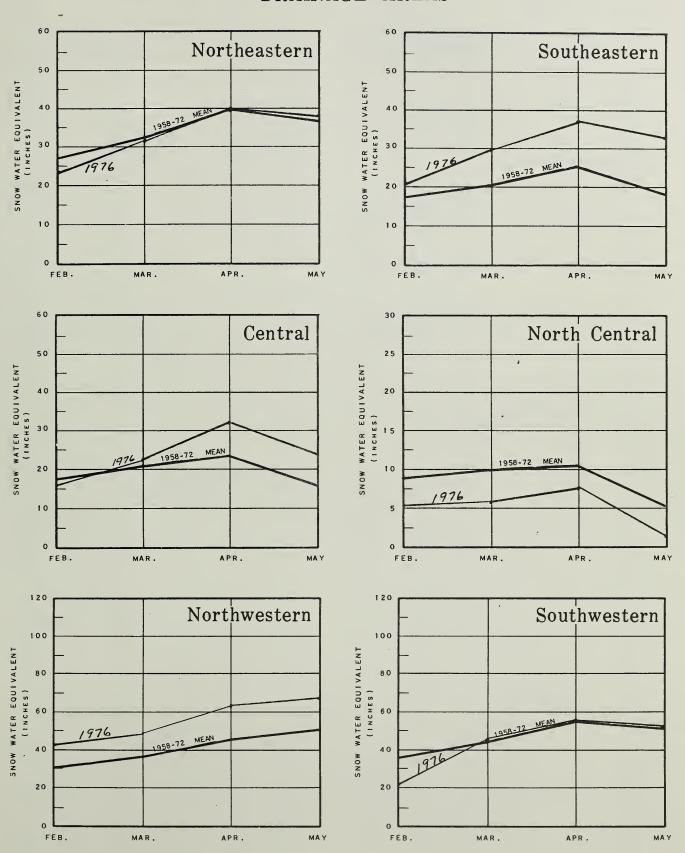
<sup>1/ -</sup> Preliminary analysis by National Weather Service from data furnished by Meteorlogical Services of Canada and the National Weather Service.

<sup>2/ -</sup> Departure from 15-year (1958-72) drainage division average.

### WASHINGTON SNOW COVER

1976

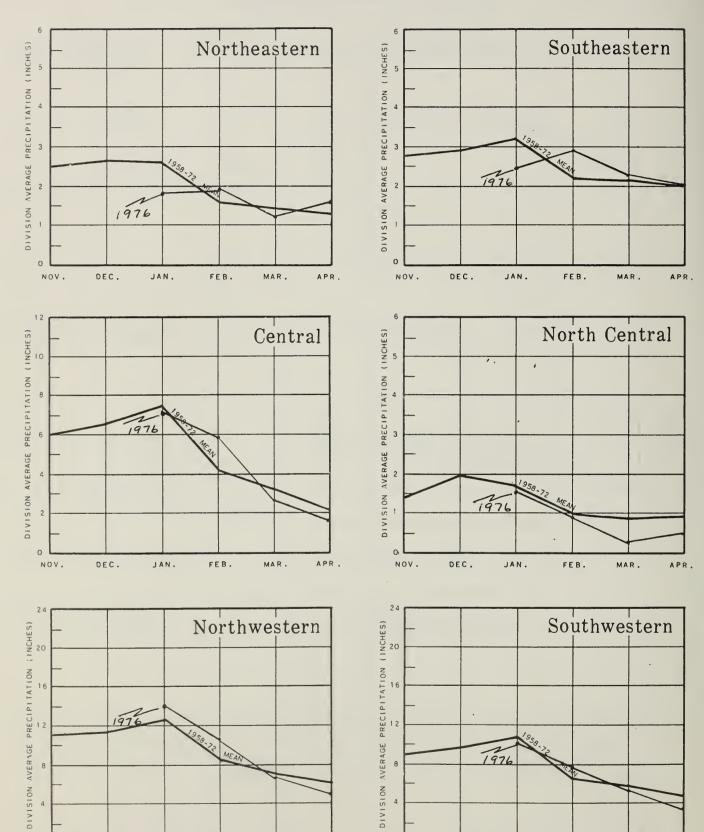
### DRAINAGE AREAS



### WASHINGTON VALLEY PRECIPITATION

1976

### DRAINAGE AREAS



NOV.

DEC.

JAN.

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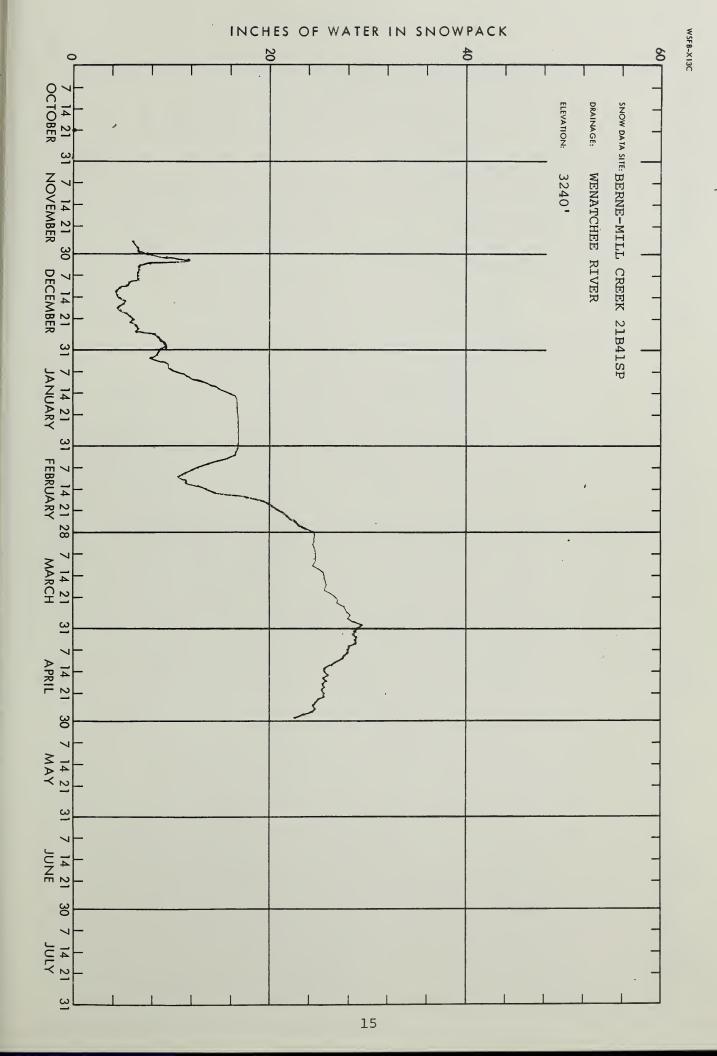
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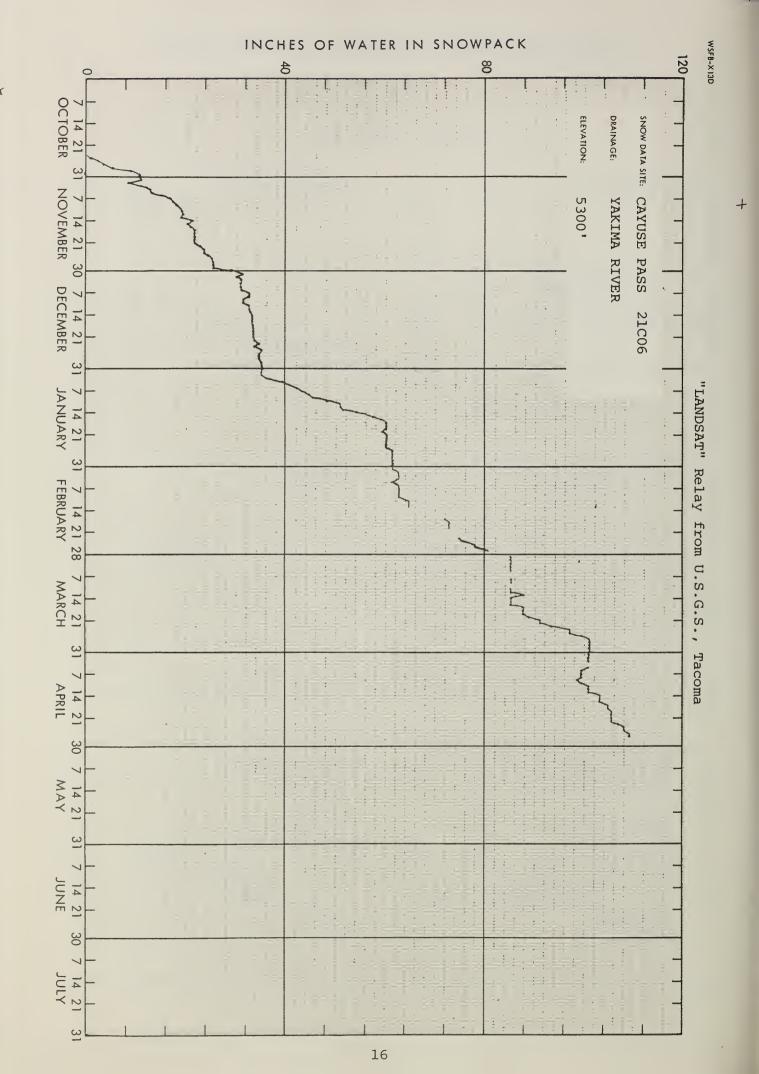
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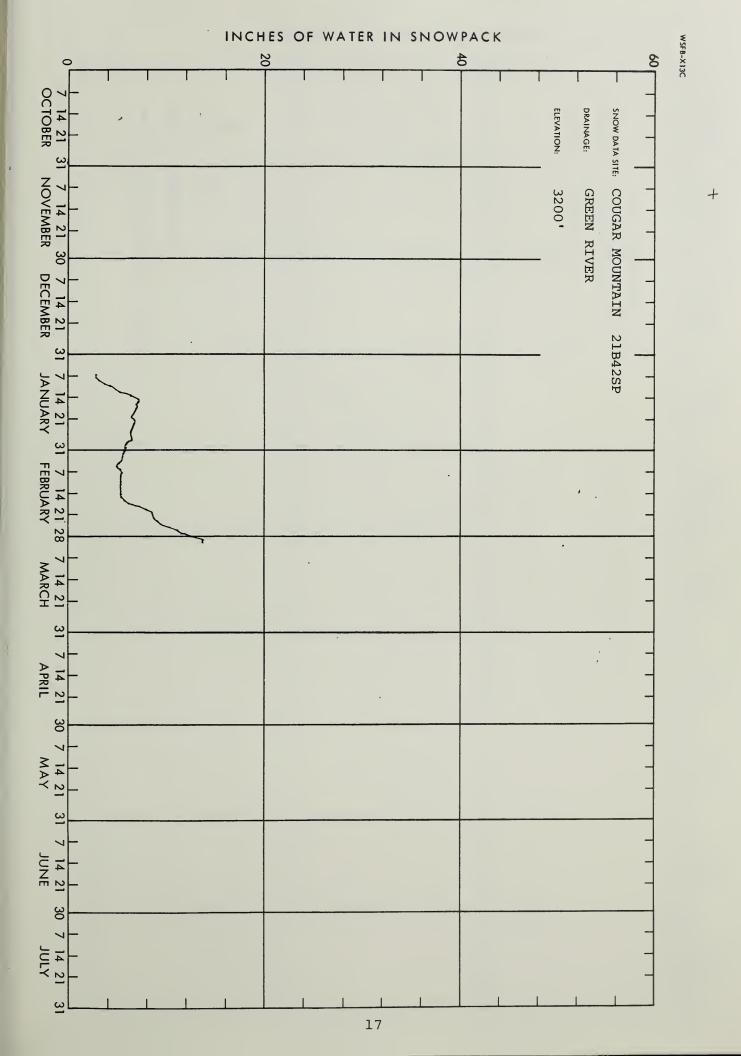
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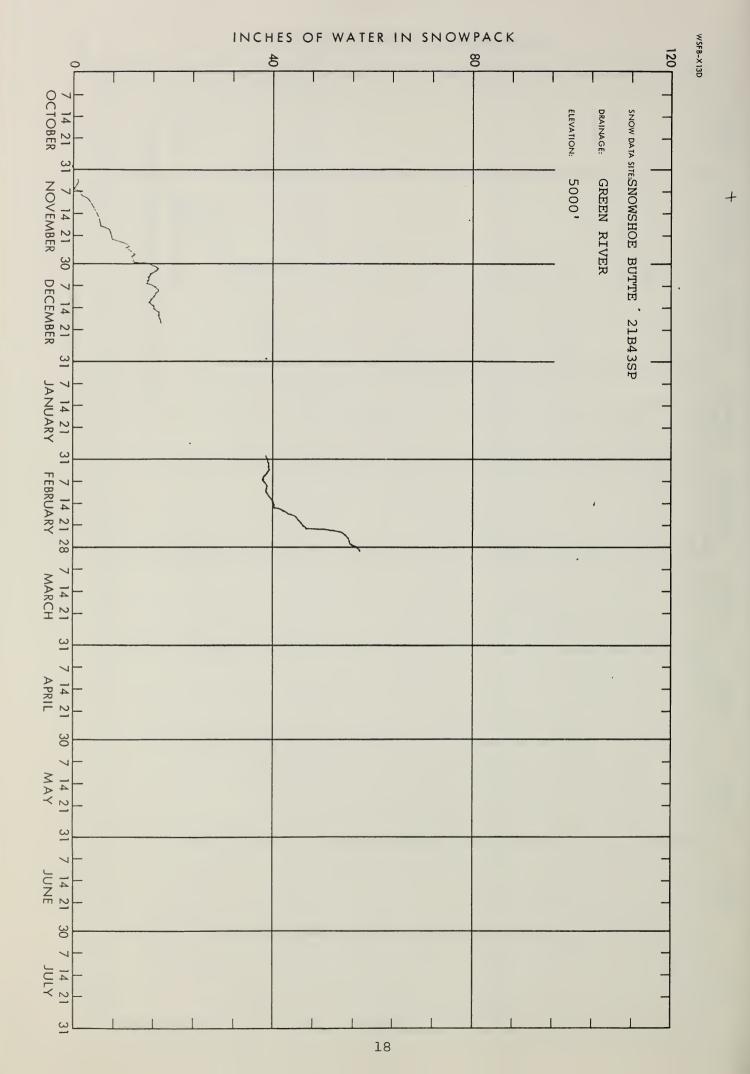
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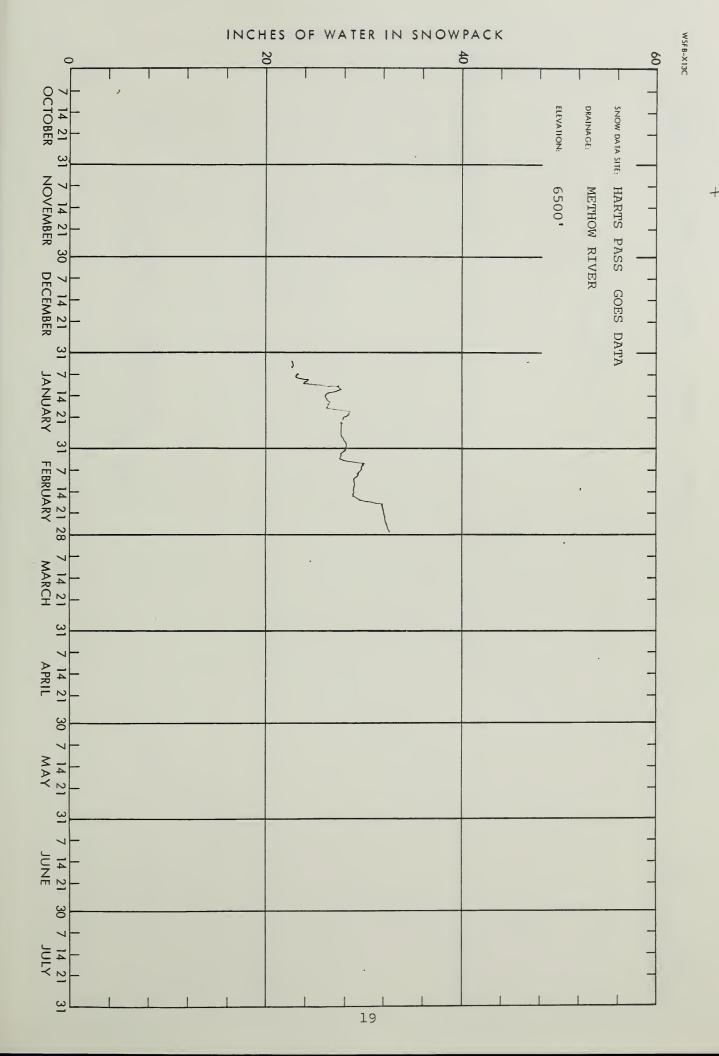
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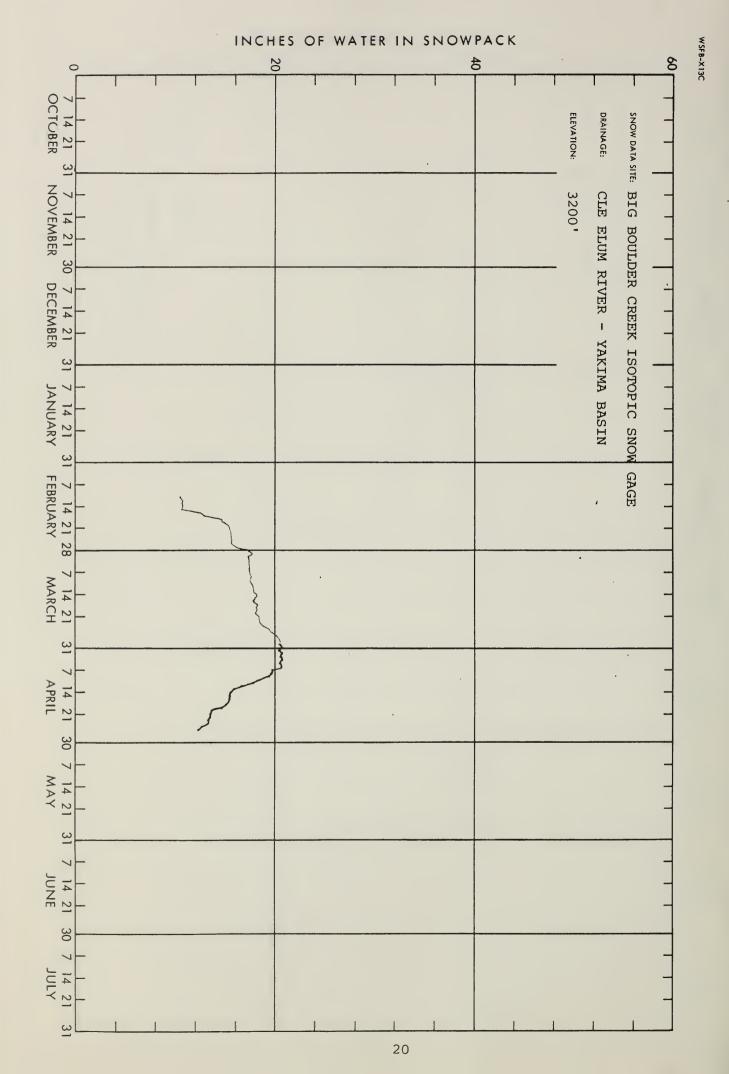


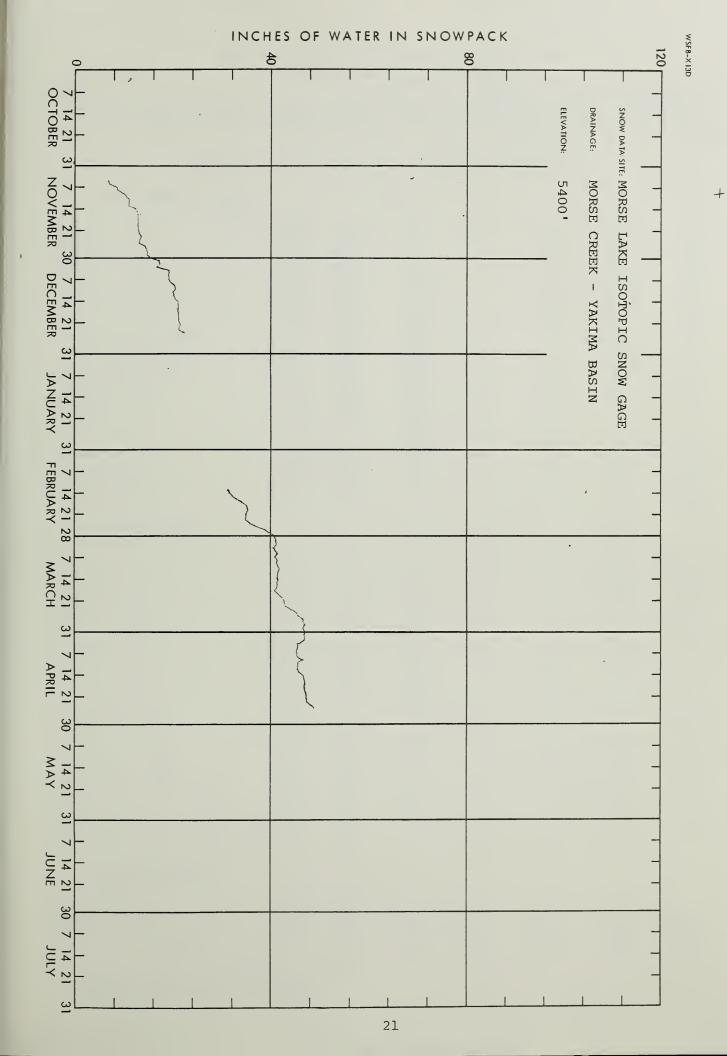


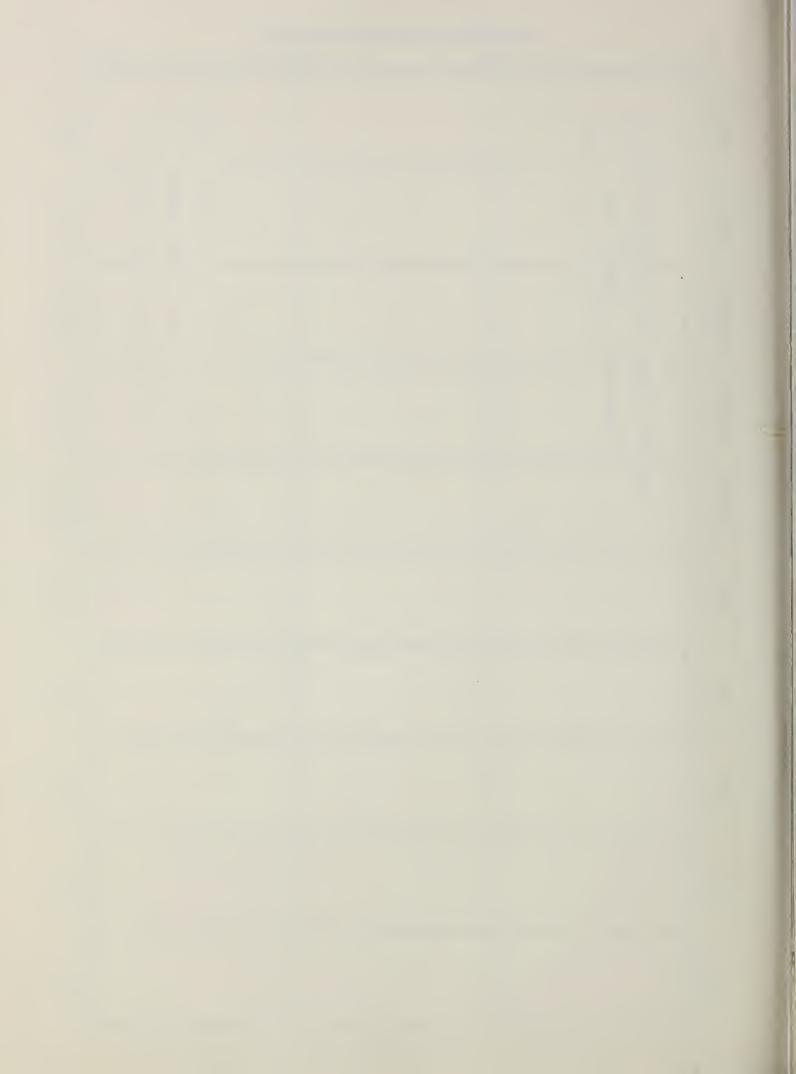












SNOW				THIS YEAR		PAST R	ECORD
DRAINAGE BASIN and/or St	OW COURSE		Date	Snow Depth	Water Content	Water Conte	ent (inches)
NAME	Number	Elevation	of Survey	(Inches)	(Inches)	Last Year	Average #

49.6

35.1

### UPPER COLUMBIA DRAINAGE

Baree Creek	15Bl1	5500	5/3	113	56.2	61.4
Baree Midway	15B16	4600	5/3	78	37.1	47.8
Baree Trail	15B15	3800	5/3	1	0.3	10.3
Benton Meadow	16A02	2344	4/26	0	0.0	0.0

Baree Trail	15B15	3800	5/3	1	0.3	10.3	1.2
Benton Meadow	16A02	2344	4/26	0	0.0	0.0	0.0
Benton Spring	16A03	4900	4/26	40	14.5	25.0	15.7
Boyer Mountain	17A02	5250	4/28	58	22.2	36.0	26.6
Brush Creek Timber	14A13	5000	4/29	22	8.1	11.9	8.2
Bunchgrass Meadow	17A01	5000	4/28	66	27.5	38.8	30.4
Heart Lake Trail	14C10	4800	4/28	49	20.9	30.2	19.0
Hoodoo Basin	15C10	6000	4/28	140	64.8	60.8	55.2
Hoodoo Creek	15C01	5900	4/28	126	56.4	57.6	52.2
T = -1	1 5 5 6 6	F0F0	4 /3 =	^^	~ T		

Hoodoo Creek	15C01	5900	4/28	126	56.4	57.6	52.2
Lookout	15B02	5250	4/15	99	37.5	-	-
			4/29	88	38.2	45.6	37.7
Nelson	19 <b>-</b> Can	3050	4/29	23	7.5	15.6	7.0*
Smith Creek	16A01	4800	4/29	101	43.2	57.3	47.9
Winchester Creek	17A03	2970	4/28	0	0.0	9.5	1.6

### KETTLE RIVER

PEND OREILLE RIVER

Barnes Creek	90-Can	5300	4/28	59	25.3	21.8	21.3*
Big White Mtn.	154-Can	5500	4/28	64	26.6	27.4	21.3*
Boulder Road	18A02	1450	4/28	0	0.0	0.0	0.0
Butte Creek	18A03	4070	4/28	23	7.9	10.9	5.9
Cabin Creek	18A08	3170	4/28	8.1	2.5	5.1	1.5
Carmi	126-Can	4100	4/28	12	5.5	5.5	1.9*
Farron # 1	17-Can	4000	4/29	34	12.7	13.6	8.2*
Farron # 2	243-Can	4000	4/29	32	12.9	14.4	New
Goat Creek	18A04	3595	4/28	0	0.0	0.0	0.0
Graystoke Lake	5-Can	5950	4/27	60	20.5	22.0	26.9*
Monashee Pass	48A-Can	4500	4/28	38	16.2	13.2	13.4*
Old Glory Mtn.	42-Can	7000	4/27	92	33.6	40.7	30.8*
Snow Caps Creek	18A05	2150	4/28	0	0.0	0.0	0.0
Snow Caps Trail	18A06	2720	4/28	0	0.0	0.0	0.0
Summit G. S.	18A07	4600	4/28	21	6.6	10.8	6.0
Trapping Creek Lower	166-Can	3050	4/28	0	0.0	0.0	0.0*
Trapping Creek Upper	165-Can	4450	4/28	25	10.0	12.4	6.1*

### SPOKANE RIVER

Above Burke	15B08	4100	4/29	60	25.9	33.6	-
Copper Ridge	16B02	4800	4/28	62	28.5	31.0	27.3
Forty-nine Meadows	15B03	5000	4/29	70	27.4	31.0	30.3

<sup>#</sup> Average based on 1958-72 average

<sup>\*</sup> Average for years of record

SNOW				THIS YEAR	Y	PAST RI	ECORD
DRAINAGE BASIN and/or SN	IOW COURSE		Date	Snow Depth	Water Content	Water Conte	nt (inches)
NAME	Number	Elevation	of Survey	(Inches)	(Inches)	Last Year	Average #
SPOKANE RIVER (Co	ont.)						
Fourth of July Summit	16B03	3100	4/27	8.6	3.1	5.5	_
Granite Peak	15B13A	6000	4/29	121	44.0	46.2	48.3
Lookout	15B02	5250	4/15	99	37.5	-	-
			4/29	88	38.2	45.6	37.7
Lost Lake	15B14A	6000	4/29	154	59.2	59.6	62.0
Lower Sands Creek	16B01	3400	4/28	50	19.2	23.0	16.0
Medicine Ridge	15B04A	6150	4/29	126	46.8	47.4	51.5
Sherwin	16C01	3200	4/30	35	12.2	-	-
OKANOGAN RIVER							
Aberdeen Lake	6A-Can	4300	5/1	8.7	2.6	5.5	1.7*
Blackwall Mountain	100-Can	6250	4/29	107	51.8	38.0	38.8*
Bouleau Lake	234-Can	4580		Not Mea	sured	-	15.3*
Brenda Mine	193-Can	4800	4/28	32	17.2	14.0	10.8*
Brookmere	27-Can	3200	5/1	13	3.9	10.3	5.9*
Carrs Landing Upper	168-Can	3200	4/29	0	0.0	0.0	0.0*
Enderby	130-Can	6250	5/3	109	45.5	49.8	43.1*
Esperon Creek Lower	164-Can	4400	4/25	30	10.5	15.0	11.0*
Esperon Creek Middle	163-Can	4700	4/25	38	14.5	20.4	13.9*
Esperon Creek Upper	162-Can	5400	4/25	48	19.1.	24.7	20.4*
Freezeout Meadows New	20A38	5000	4/25	102	43.9	44.0	-
Graystoke Lake	5-Can	5950	4/27	60	20.5	22.0	26.9*
Hamilton Hill	107-Can	4900	4/29	46	17.9	15.7	13.4*
Harts Pass	20A05A	6500	4/25	144	65.9	53.9	50.7
Isintok Lake	152-Can	5510	4/30	35	9.6	10.8	7.3*
Lost Horse Mountain	105-Can	6300	5/1	35	12.3	13.4	10.7*
Loup Loup	19A07	4650	4/29	3.2	1.8	9.0	-
McCulloch	4-Can	4200	4/30	9	3.2	6.2	2.8*
Missezula Mountain	106-Can	5100	4/28	26	9.1	11.1	4.5*
Mission Creek	5A-Can	6000	4/27	70	25.9	26.2	21.7*
Monashee Pass	48A-Can	4500	4/28	38	16.2	13.2	13.4*
Mount Kobau	156-Can	5950	4/30	34	11.4	15.7	13.7*
Mutton Creek No. 1	19A01	5700	4/28	19	6.5	16.1	10.9
Mutton Creek No. 2	19A04	6000	4/28	34	9.6	17.3	15.5
Mutton Creek No. 2 SP	19AllSP	6000	4/28	-	8.6	14.8	-
New Copper Mountain	46A-Can	4300	4/28	0	0.0	2.7	3.7*
New Penticton Res. #2	183-Can	5225	4/29	28	9.2	12.5	- 0.5
Nickel Plate Mtn.	47-Can	6200	4/28	33	10.6	11.6	7.9*
Postill Lake	55-Can	4500	4/30	22	8.0	10.2	6.8*
Quartette Lake	34-Can	4000	4/27	49	19.1	9.9	-
Rusty Creek	19A03	4000	4/28	0	0.0	4.3	0.6
Salmon Meadows	19A02	4500	4/28	5.2	1.7	9.2	5.4

<sup>#</sup> Average based on 1958-72 average

<sup>\*</sup> Average for years of record

SNOW				THIS YEAR	Y	PAST R	ECORD
DRAINAGE BASIN and/or SN	OW COURSE		Date	Snow Depth	Water Content	Water Cont	ent (inches)
NAME	Number	Elevation	of Survey	(Inches)	(Inches)	Last Year	Average ‡
OKANOGAN RIVER (C	ont.)						
Silver Star Mountain	99-Can	6050	5/1	80	37.2	36.7	27.4*
Summerland Reservoir	3A-Can	4200	5/1	21	8.0	13.0	6.7*
Trout Creek	3-Can	4700	4/29	22	8.0	10.7	5.2*
Vaseux Creek	233-Can	4600	5/1	11	4.0	5.4	2.9*
White Rocks Mountain	70-Can	6000	4/30	59	25.0	35.4	28.3*
ENTIAT RIVER							
Blue Creek G. S. +	20B28a	5425	4/26	126	59.2	44.9	New
Brief	20B19	1600	4/24	0	0.0	0.0	0.0
Entiat Meadows +	20A33a	4800	4/26	142	66.7	45.8	41.0
Entiat River Trail +	20A34a	3150	4/26	56	22.0	10.1	9.7
Four Mile Ridge +	20B27a	7000	4/26	111	52.2	44.0	<b>-</b>
Fox Camp +	20A36a	6510	4/26	168	79.0	64.2	63.5
Pope Ridge	20B20	4300	4/29	28	11.0	18.5	8.2
Pugh Ridge +	20A32a	6400	4/26	109	51.2	41.8	38.7
Shady Pass	20A37	6200	4/30	88	41.7	36.1	-
Snow Brushy +	20A35a	3850	4/29	59	25.2	34.0	30.8
Tommy Creek +	20B21a	5300	4/26	64	30.1	22.4	22.5
METHOW RIVER							
Harts Pass	20A05A	6500	4/25	144	65.9	53.9	50.7
Loup Loup	19A07	4650	4/29	3.2	1.8	9.0	-
Mutton Creek No. 1	19A01	5700	4/28	19	6.5	16.1	10.9
Mutton Creek No. 2	19A04	6000	4/28	34	9.6	17.3	15.6
Mutton Creek No. 2 SP	19AllSP	6000	4/28	-	8.6	14.8	_
Rusty Creek	19A03	4000	4/28	0	0.0	4.3	0.6
Salmon Meadows	19A02	4500	4/28	5.2	1.7	9.2	5.4
CHELAN LAKE BASIN	· -						
Rainy Pass	20A09	4780	4/25	130	60.2	49.8	44.3
WENATCHEE RIVER							
	21B23				29.0		
Berne-Mill Creek New S					20.0		
Blewett Pass No. 2	20B02	4270		43			
				35			9.5
	20B16			0		0.0	
Fish Lake	21B04						
Lake Wenatchee	20B05				8.0		
Leavenworth R. S.	20B17	1127	5/1	0	0.0	0.0	0.0

<sup>#</sup> Average based on 1958-72 average

<sup>\*</sup> Average for years of record

<sup>+</sup> Snow water equivalent estimated from aerial stadia observation

NOW				THIS YEAR			ECORD
DRAINAGE BASIN and/or SNO	M COURSE		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Conte	
NAME	Number	Elevation	81 Survey	(menes)	(inches)	Last Year	Average
WENATCHEE RIVER (	Cont.)						
Merritt	20B18	2140	4/29	26	11.2	15.6	3.8
Stevens Pass	21B01	4070	4/15	156	59.3	67.6	55.2
			4/29	141	63.3	69.2	55.8
Stevens Pass Sand Shed	21B45	3700	4/15	109	42.9	48.9	-
			4/29	95	42.3	48.7	. –
SQUILCHUCK CREEK							
Beehive Springs	20B03	4400	4/28	0	0.0	5.4	1.7
Scout-A-Vista	20B04	3400	4/28	0	0.0	0.5	0.4
STEMILT CREEK							
Jump-Off	20B08	4450	4/30	5.2	2.0	8.2	2.8
Stemilt Slide	20B06	5000	4/29	19	8.0	14.7	7.1
Upper Wheeler	20B07	4400	4/29	0	0.0	7.3	1.0
COLOCKUM CREEK						•	
Colockum Creek Upper	20B22	5300	4/29	8.7	4.5	17.5	_
Colockum Creek Lower	20B23	4300	4/29	0	0.0	8.5	-
Trough # 2	20B25SP	5310	4/29	7.7	4.3	New	
YAKIMA RIVER							
Ahtanum R. S.	21C11	3100	5/1	0	0.0	-	0.0
Big Boulder Creek	21B09	3200	4/26	41	17.0	20.9	7.4
Blewett Pass No. 2	20B02	4270	4/13	43	17.4	20.2	13.0
			4/28	34	16.2	19.5	9.5
Bumping Lake	21C08	3450	4/14	42	15.2	20.4	13.4
Bumping Lake New	21.026	3400	4/30 4/14	28 56	11.4 21.4	14.8 26.4	9.4
bumping take new	21C36	3400	4/14		18.5	21.5	15.0
Cayuse Pass	21C06	5300	4/25		108.6	105.4	-
Corral Pass	21B13		4/29	125	53.9	58.4	_
Fish Lake	21B04	3371	4/26	94	40.8	37.0	26.7
Joe Lake	21B46a	4624	4/27	219+	94.6	99.4	-
Lake Cle Elum	21B14M	2200	4/14		6.3	8.0	-
			4/29	0	0.0	0.0	0.0
Lemah Creek +	21B47a	3327	4/27	84	35.2	46.0	,-
Morse Lake	21C17	5400	4/26	152	59.5	88.1	65.1
Olallie Meadows	21B02	3625	4/13		55.6	64.8	48.4
			4/30	122	57.1	66.5	48.6

<sup>#</sup> Average based on 1958-72 average

<sup>+</sup> Snow water equivalent estimated from aerial stadia observation

WONS				THIS YEAR		PAST R	ECORD
DRAINAGE BASIN and/or Six	<del></del>		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Conte	,
NAME	Number	Elevation		1	(.nenes)	Last Year	Average 1
YAKIMA RIVER (Con	t.)		,				
Satus Pass	20D01	4030	. /		easured	12.8	1.9
Stampede Pass SP	21B10SP	3860	4/13	-	42.6	53.8	43.4
Munnel Arrente	21B08	2450	5/3 4/15	75	36.6	55.0	43.4
Tunnel Avenue	21606	2450	4/13	75 57	29.6 24.6	33.0 29.0	20.1
Van Epps Pass +	20B26a	5925	4/27	146	63.0	63.0	-
Waptus Lake +	21B49a	3024	4/27	80	33.3	41.9	_
White Pass (E. Side)	21C28	4500	4/15	74	28.9	34.0	26.0
mirec rabb (Er Drab)		1000	4/28	73	29.7	33.6	25.9
White Pass (L. Lake)	21C27	4500	4/25	82	35.8	39.3	28.6
LOWE	R CO	LUME	BIA I	DRAIN	IAGE		
ASOTIN CREEK							
Spruce Springs	17C04	5700	4/26	72	29.5	33.3	25.8
MILL CREEK							
Tollgate	18D3M	5070	4/28	70	33.6	-	18.9
KLICKITAT RIVER					•		
					_	10.0	
Satus Pass	20D01	4030		Not Me	asured	12.8	1.9
WHITE SALMON RIVE	<u>IR</u>						
Cultus Creek	21C12	4000	4/28	125	53.6	51.3	48.9
Surprise Lakes	21C13A	4250	4/28	126	56.3	59.7	52.9
WIND RIVER							
Old Man Pass	21D19	3100	4/28	51	22.6	18.6	12.6
Old Man Pass	21019	3100	4/20	31	22.0	10.0	12.0
LEWIS RIVER							
Blue Lake +	21C22a		4/26		106.5	104.9	92.4
Bob's Trail	21C21	2200	•	40	18.7	12.1	7.8
Calamity Ridge +	21D01a		4/26	20	8.0	3.5	1.3
Council Pass +	21C18a		4/26	120	54.0		38.8
Cultus Creek	21C12		4/26	125	53.6	51.3	48.9
Divide Meadow +	21C29a		4/26	172	77.4	70.5	65.5
Grand Meadow	21C25	3500	4/26	60	26.7	30.6	22.4

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<sup>+</sup> Snow water equivalent estimated from aerial stadia observation

NOW				THIS YEAR	\	PAST R	ECORD
DRAINAGE BASIN and/or S	NOW COURSE		Date	Snow Depth	Water Content	Water Conte	nt (inches)
NAME	Number	Elevation	of Survey	(Inches)	(Inches)	Last Year	Average
LEWIS RIVER (Con	t.)						
Lone Pine Shelter	21C26	3800	4/25	126	56.9	48.9	46.3
Marble Mountain +	22C05a	3200	4/26	99	42.2	35.5	33.2
Mosquito Meadows	21C19	4100	4/25	130	57.0	49.4	45.8
New Muddy River	22C06	2000	4/26	5.5	2.0	0.0	0.8
Old Man Pass	21D19	3100	4/26	51	22.6	18.6	12.6
Plains of Abraham +	22C0la	4400	4/26	160	73.6	80.1	76.9
Smith Creek Road	22C04	2100	4/26	10	4.2	7.4	5.3
Spencer Meadow +	21C20a	3400	4/26	62	27.3	23.5	16.1
Surprise Lakes	21C13A	4250	4/26	126	56.3	59.7	52.9
Table Mountain +	21C24a	4200	4/26	132	59.4	59.0	40.3
Timbered Peak +	21D18a	3000	4/26	52	23.4	15.8	9.9
COWLITZ RIVER							
Cayuse Pass	21C06	5300	4/25	236	108.6	105.4	_
Mosquito Meadows	21C19	4100	4/25	130	57.0	49.4	45.8
Plains of Abraham +	22C01a	4400	4/26	160	73.6	80.1	76.9
Potato Hill	21C14	4500	4/25	90	39.1	42.4	_
White Pass (E. Side)	21C28	4500	4/15	74	28.9	34.0	26.0
			4/28	73	29.7	33.6	25.9
White Pass (L. Lake)	21C27	4500	4/25	82	35.8.	39.3	28.6
וז ת							
		O II N	ם ח	7 T N 7	CE		
	GET S	OUN	D D R	AINA	<u>G E</u>		
NISQUALLY RIVER	GET S	OUN	D DR	AINA	G E		
NISQUALLY RIVER	G E T S	4550	4/26	138	60.8	61.1	-
NISQUALLY RIVER Ghost Forest		4550				61.1 7.6	-
NISQUALLY RIVER Ghost Forest Longmire	21C04	4550 2760	4/26	138 21	60.8		-
NISQUALLY RIVER  Ghost Forest  Longmire  New Paradise Park	21C04 21C03	4550 2760 5500	4/26 4/26	138 21	60.8	7.6	
NISQUALLY RIVER  Ghost Forest  Longmire  New Paradise Park  Stem Glade	21C04 21C03 21C35	4550 2760 5500	4/26 4/26 4/26	138 21 205	60.8 9.2 95.2	7.6 93.0	
NISQUALLY RIVER  Ghost Forest  Longmire  New Paradise Park	21C04 21C03 21C35	4550 2760 5500	4/26 4/26 4/26	138 21 205	60.8 9.2 95.2	7.6 93.0	
NISQUALLY RIVER  Ghost Forest Longmire New Paradise Park Stem Glade  WHITE RIVER	21C04 21C03 21C35	4550 2760 5500 5050	4/26 4/26 4/26 4/26	138 21 205 204	60.8 9.2 95.2 90.6	7.6 93.0	
NISQUALLY RIVER  Ghost Forest Longmire New Paradise Park Stem Glade  WHITE RIVER  Cayuse Pass	21C04 21C03 21C35 21C01	4550 2760 5500 5050	4/26 4/26 4/26 4/26 4/26	138 21 205 204 236 125	60.8 9.2 95.2 90.6	7.6 93.0 84.4	
NISQUALLY RIVER  Ghost Forest Longmire New Paradise Park Stem Glade  WHITE RIVER  Cayuse Pass Corral Pass	21C04 21C03 21C35 21C01	4550 2760 5500 5050 5300 6000	4/26 4/26 4/26 4/26	138 21 205 204	60.8 9.2 95.2 90.6	7.6 93.0 84.4	- - - - - 65.1
NISQUALLY RIVER  Ghost Forest Longmire New Paradise Park Stem Glade  WHITE RIVER  Cayuse Pass Corral Pass	21C04 21C03 21C35 21C01 21C06 21C13	4550 2760 5500 5050 5300 6000	4/26 4/26 4/26 4/26 4/26	138 21 205 204 236 125	60.8 9.2 95.2 90.6	7.6 93.0 84.4 105.4 58.4	- - - - 65.1
NISQUALLY RIVER  Ghost Forest Longmire New Paradise Park Stem Glade  WHITE RIVER  Cayuse Pass Corral Pass Morse Lake  GREEN RIVER	21C04 21C03 21C35 21C01 21C06 21C13	4550 2760 5500 5050 5300 6000	4/26 4/26 4/26 4/26 4/26	138 21 205 204 236 125	60.8 9.2 95.2 90.6	7.6 93.0 84.4 105.4 58.4	- - - - 65.1
NISQUALLY RIVER  Ghost Forest Longmire New Paradise Park Stem Glade  WHITE RIVER  Cayuse Pass Corral Pass Morse Lake  GREEN RIVER	21C04 21C03 21C35 21C01 21C06 21C13 21C17	4550 2760 5500 5050 5300 6000 5400	4/26 4/26 4/26 4/26 4/26 4/29 4/29 4/26	138 21 205 204 236 125 152	60.8 9.2 95.2 90.6	7.6 93.0 84.4 105.4 58.4	- - - 65.1
NISQUALLY RIVER  Ghost Forest Longmire New Paradise Park Stem Glade  WHITE RIVER  Cayuse Pass Corral Pass Morse Lake  GREEN RIVER  Cougar Mountain SP	21C04 21C03 21C35 21C01 21C06 21C13 21C17	4550 2760 5500 5050 5300 6000 5400	4/26 4/26 4/26 4/26 4/26 4/29 4/29 4/26	138 21 205 204 236 125 152	60.8 9.2 95.2 90.6 108.6 53.9 59.5	7.6 93.0 84.4 105.4 58.4 88.1	- - -
NISQUALLY RIVER  Ghost Forest Longmire New Paradise Park Stem Glade  WHITE RIVER  Cayuse Pass Corral Pass Morse Lake	21C04 21C03 21C35 21C01 21C06 21C13 21C17	4550 2760 5500 5050 5300 6000 5400	4/26 4/26 4/26 4/26 4/26 4/25 4/29 4/26	138 21 205 204 236 125 152	60.8 9.2 95.2 90.6 108.6 53.9 59.5	7.6 93.0 84.4 105.4 58.4 88.1	- - - 65.1

<sup>#</sup> Average based on 1958-72 average

USDA SCS PORTLAND OREGON 1973

<sup>+</sup> Snow water equivalent estimated from aerial stadia observation

	THIS YEAR			PAST RECORD			
DRAINAGE BASIN and/or SNOW COURSE			Date	Snow Depth	Water Content	Water Content (inches)	
NAME	Number	Elevation	of Survey	(Inches)	(Inches)	Last Year	Average #
SNOQUALMIE RIVER							
Olallie Meadows	21B02	3625	4/13	127	55.6	64.8	48.4
			4/30	122	57.1	66.5	48.6
SKYKOMISH RIVER							
Stevens Pass	21B01	4070	4/15	156	59.3	67.6	55.2
			4/29	141	63.3	69.2	55.8
Stevens Pass Sand Shed	21B45	3700	4/15	109	42.9	48.9	-
			4/29	95	42.3	48.7	-
SKAGIT RIVER							
Beaver Creek Trail	21A04	2200	4/26	37	16.7	13.2	4.8
Beaver Pass	21A01	3680	4/26	91	42.0	35.0	34.0
Brown Top	21A28a	6000	4/25	206	96.6	71.2	-
Devils Park	20A04A	5900	4/25	148	69.0	55.1	49.5
Freezeout Cr. Trail	20A01	3500	4/25	36	14.9	12.9	8.2
Freezeout Meadows New	20A38	5000	4/25	102	43.9	44.0	31.0
Granite Creek	21A29	3500	4/26	59	24.6	19.0	-
Harts Pass	20A05A	6500	4/25	144	65.9	53.9	50.7
Klesilkwa	35B-Can	3700		Not Me	easured '	-	11.3*
Meadow Cabins	20A08	1900	4/26	14	4.2	3.8	1.3
New Hozomeen Lake	21A30	2800	4/25	34	13.7	10.6	-
New Tashme	26A-Can	2500		Not Me	easured	10.5	5.6*
Quartette Lake	34-Can	4000	4/27	49	19.1	9.9	
Rainy Pass	20A09	4780	4/25	130	60.2	49.8	44.3
Thunder Basin	20A07	4200	4/26	75	28.5	42.1	25.5
BAKER RIVER							
Baker Pass +	21A27a	4900	4/29	244	122.0	99.9	-
Dock Butte	21AllA	3800	4/29		101.6	78.8	77.4
Easy Pass	21A07A	5200	4/26		123.0	101.0	93.3
Jasper Pass	21A06A		4/26	271	126.8	104.2	102.7
Komo Kulshan	21A17		4/28	0	0.0	87.0	80.4
Marten Lake	21A09A		4/29	229	114.0	86.5	83.8
Mount Blum +	21A18a		4/28	197	94.6	81.0	-
Panorama New	21A26	4300	4/17	185	85.1	82.7	-
			5/3	181	95.7		-
Rocky Creek	21A12A		4/29	100	49.0	37.6	22.6
Schreibers Meadow	21A10A	3400	4/28	180	86.2	73.8	67.5

<sup>#</sup> Average based on 1958-72 average

<sup>\*</sup> Average for years of record

<sup>+</sup> Snow water equivalent estimated from aerial stadia observation

SNOW			THIS YEAR	Y	PAST R	PAST RECORD	
DRAINAGE BASIN and/or SNOW COUNSE			Date	Snow Depth	Water Content	Water Content (inches)	
NAME	Number	Elevation	of Survey	(Inches)	(Inches)	Last Year	Average #
BAKER RIVER (Cont	<u>.</u> )						
S. F. Thunder Creek	21A14A	2200	4/29	15	8.0	5.7	1.1
Sulphur Creek	21A13	1600	4/28	44	20.9	14.1	6.4
Three Mile Creek	21A15	1600	4/29	0	0.0	0.0	0.0
Watson Lakes	21A08A	4500	4/29	194	92.0	77.2	76.9
NOOKSACK RIVER							•
Panorama New	21A26	4300	4/17	185	85.1	82.7	-
			5/3	181	95.7	83.7	-
MORSE CREEK	LYMP	IC I	PENIN	SULA	<del>.</del>		
Cox Valley	23B14	4500	4/27	135	57.9	45.1	-
ELWHA RIVER Hurricane	23B03	4500	4/26	86	34.0	28.1	26.9
SKOKOMISH RIVER					•		
Black & White	23B07	4200	4/25	140	58.2	53.2	-
Black & White Lakes	23B06	4700	4/25	161	74.4	72.6	-
Home Sweet Home	23B05	5200	4/25	228	94.0	80.8	-

<sup>#</sup> Average based on 1958-72 average

### Agencies Assisting with Snow Surveys

### GOVERNMENT AGENCIES

### Canada:

Department of Lands, Forests and Water Resources, Water Resources Service, British Columbia

### States:

Washington State Department of Ecology Washington State Department of Natural Resources

### Federal:

Department of the Army
Corps of Engineers
U. S. Department of Agriculture
Forest Service
U. S. Department of Commerce
NOAA, National Weather Service
U. S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Geological Survey
National Park Service

### PUBLIC AND PRIVATE UTILITIES

Chelan County P.U.D.
Pacific Power and Light Company
Puget Sound Power and Light Company
Washington Water Power Company

### OTHER PUBLIC AGENCIES

Okanogan Irrigation District Wenatchee Heights Irrigation District

### MUNICIPALITIES

City of Tacoma City of Seattle

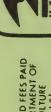
Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

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